

Application No. 10/695891
Reply to Action dated 4/27/05

IN THE CLAIMS

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1, 2, 5, 7, 8, and 11-16 are amended.

Claims 17-21 are new.

Claims 9-10 are canceled.

Listing of Claims:

1. (Currently Amended) A bicycle comprising:
 - a bicycle body frame,
 - a swing arm structure,
 - a rear wheel,
 - a transmission,
 - a transmission case attached to the bicycle body frame and enclosing the transmission,
 - a crankshaft, and
 - an output pulley-band,wherein the bicycle body frame further comprises a pivot section,
wherein the transmission further comprises a drive rotation body, a crankshaft, a plurality of gear-change rotation bodies, a gear shifting mechanism, an output [[axis]]shaft, and a gear-change pulley band covered by the transmission case, and an operation rotation body alternatively selected from the plurality of gear-change bodies by the gear shifting mechanism,
wherein the swing arm structure swings about the pivot section, and the swing arm structure supports the rear wheel, wherein the drive rotation body is rotatably driven by the crankshaft, and the drive rotation body is drive-coupled to the operation rotation body by the gear-change pulley-band, wherein the output [[axis]]shaft is rotatable and is drive-coupled to the plurality of gear-change rotation bodies, wherein the output [[axis]]shaft is drive-coupled to the rear wheel by the output pulley-band,

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wherein at least one rotation body is supported by the transmission case, and
wherein the pivot section is located within the gear-change band when viewed from
the side.

2. (Canceled)
3. (Previously Presented) The bicycle of claim 1, wherein the pivot section comprises a single member passing through the transmission.
4. (Canceled)
5. (Currently Amended) The bicycle of claim [[4]]1, wherein the transmission case is a resin.
6. (Original) The bicycle of claim 1, wherein the swing arm structure comprises dual arms connecting to the rear wheel.
7. (Currently Amended) The bicycle of claim 1, wherein the gear-change pulley band is a chain.
8. (Currently Amended) The bicycle of claim 1, wherein the output pulley band is a chain.
- 9-10. (Canceled)
11. (Currently Amended) The bicycle of claim [[10]]17, wherein ~~the transmission~~ comprises:
 - ~~a drive rotation body,~~
 - ~~a plurality of gear change rotation bodies,~~
 - ~~an output axis,~~
 - ~~a gear shifting mechanism, and~~

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~~a gear change pulley connected to the drive rotation body and the plurality of gear change rotation bodies, the gear change pulley defining first band defines an aperture;~~

~~wherein only one of the plurality of gear change rotation bodies is directly engaged to gear change at a particular time, wherein the gear shifting mechanism changes which gear change rotation body is directly engaged to the gear change pulley.~~

12. (Currently Amended) The bicycle of claim 11, wherein the swing arm structure is connected to the bicycle body frame at a pivot ~~[[axis]]~~shaft, wherein the pivot ~~[[axis]]~~shaft passes through the aperture defined by the gear change pulley first band.

13. (Currently Amended) The bicycle of claim ~~[[10]]~~11, further comprising a transmission case, wherein the transmission case is attached to the bicycle body frame and encloses the transmission.

14. (Currently Amended) The bicycle of claim ~~[[13]]~~17, wherein the transmission case is a resin.

15. (Currently Amended) The bicycle of claim ~~[[9]]~~17, wherein a rear end of the swing arm structure comprises dual arms connecting to the rear wheel.

16. (Currently Amended) The bicycle of claim ~~[[11]]~~17, wherein the gear-change pulley first band is a chain.

17. (New) A bicycle, comprising:

a body frame having a front main frame and a rear swing arm structure connected at a pivot shaft, said rear swing arm structure supporting a rear wheel;

a crankshaft supporting a drive rotation body;

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a transmission having an output shaft, said transmission including the drive rotation body, a plurality of gear-change bodies, a gear shifting mechanism, and a gear change first band coupling together said drive rotation body, one of said plurality of gear-change bodies, and said gear shifting mechanism;

a transmission case attached to the front main frame and enclosing the transmission;
and

a second band operatively transferring power from said output shaft to the rear wheel.

18. (New) The bicycle of claim 17, wherein said output shaft is spaced forward from said crankshaft.

19. (New) The bicycle of claim 18, wherein said pivot shaft is spaced forward from said crankshaft and rearward from said output shaft, and
the output shaft is proximal to the pivot shaft, thereby suppressing any distance change between the output shaft and an axis of the rear wheel when the swing arm structure swings left or right in relation to a front wheel of the bicycle.

20. (New) The bicycle of claim 1, wherein the pivot section is located within the gear-change band and output band when viewed from the side.

21. (New) The bicycle of claim 1, wherein the gear-change band and the output band are comprised of chains.